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Application No.: 09/762,380
Amendment Dated: January 19, 2007

MTS-3243US

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-5. (Cancelled)

6. (Currently Amended) A recording and reproducing apparatus, comprising:

recording means for recording a predetermined MPEG transport stream discretely including Program Specific Information (PSI) or Service Information (SI) of a program;

detecting means for detecting the PSI or the SI from the MPEG transport stream; and

adding means for adding the PSI or the SI ~~to~~before the head of the MPEG transport stream upon recording of the MPEG transport stream.

7-31. (Cancelled)

32. (Currently Amended) A recording and reproducing apparatus, comprising:

a recorder for recording a predetermined MPEG transport stream discretely including Program Specific Information (PSI) or Service Information (SI) of a program;

a detector for detecting the PSI or the SI from said MPEG transport stream;
and

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an adder for adding the PSI or the SI ~~to~~before the head of the MPEG transport stream upon recording of the MPEG transport stream.

33. (Cancelled)

34. (Currently Amended) A recording and reproducing method, comprising steps of:

recording a predetermined MPEG transport stream discretely including Program Specific Information (PSI) or Service Information (SI) of a program;

detecting the PSI or the SI from the MPEG transport stream; and

adding the PSI or the SI ~~to~~before the head of the MPEG transport stream upon recording of the MPEG transport stream.

35. (Cancelled)

36-38. (Cancelled)

39. (Previously Presented) The apparatus of claim 6 wherein said adding means adds the PSI or the SI before the head of the MPEG transport stream while maintaining the PSI or the SI situated in the originally located position.

40. (Previously Presented) The apparatus of claim 6 wherein said detecting means detects the PSI or the SI together with a value of its cyclic counter and said adding means adds the PSI or the SI before the head of the MPEG transport stream so that continuity of the values of respective cyclic counters is kept.

41. (Previously Presented) The apparatus of claim 40 wherein the continuity of the values of respective cyclic counters is kept by rewriting the values in accordance with the values of cyclic counters of the respective PSIs or SIs originally included in the MPEG transport stream, or by replacing respective PSIs or

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Sis originally included in the MPEG transport stream in accordance with the values of cyclic counters of the PSIs or SIs.

42. (Previously Presented) The apparatus of claim 32 wherein said adder adds the PSI or the SI before the head of the MPEG transport stream while maintaining the PSI or the SI situated in the originally located position.

43. (Previously Presented) The apparatus of claim 32 wherein said detector detects the PSI or the SI together with a value of its cyclic counter and said adder adds the PSI or the SI to the head of the MPEG transport stream so that continuity of the values of respective cyclic counters is kept.

44. (Previously Presented) The apparatus of claim 43 wherein the continuity of the values of respective cyclic counters is kept by rewriting the values in accordance with the values of cyclic counters of the respective PSIs or SIs originally included in the MPEG transport stream, or by replacing respective PSIs or SIs originally included in the MPEG transport stream in accordance with the values of cyclic counters of the PSIs or SIs.

45. (Previously Presented) The method of claim 34 wherein the PSI or the SI is added before the head of the MPEG transport stream while maintaining the PSI or the SI situated in the originally located position.

46. (Previously Presented) The method of claim 32 wherein the PSI or the SI is detected together with a value of its cyclic counter and the PSI or the SI is added to the head of the MPEG transport stream so that continuity of the values of respective cyclic counters is kept.

47. (Previously Presented) The method of claim 46 wherein the continuity of the values of respective cyclic counters is kept by rewriting the values in accordance with the values of cyclic counters of the respective PSIs or SIs originally included in the MPEG transport stream, or by replacing respective PSIs or SIs originally included in the MPEG transport stream in accordance with the values of cyclic counters of the PSIs or SIs.